HIGH STREET RADIO,
290, HIGH ST., CROYDON, SURREY.
TELEPHONE:- CRO. 9015.

Dimensions
3·9″ high, 18·5″ wide, 9·7″ deep.
Weight
13·5 lb.
Power requirements
Voltage
110–130–220–240 volts AC.
Frequency
50–60 Hz.
Consumption
12 watts.
Connections
Inputs
FM aerial
75 and 300Ω and local.
Outputs
Amplifier
Adjustable between 55 mV and 1 V.
Tape recorder
100 mV for 100% modulation.
RF tuning
Tuning range
87–108 MHz.
Sensitivity
0·8 μV for 20 dB signal/noise ratio, 1000 Hz/75 Hz frequency swing.
Usable sensitivity
(IHFM standard) noise and distortion less than 3% 1·5 μV.
RF
Four-stage gang-tuned front end with separate oscillator.
Limiting
3 dB 1·5 μV.
Signal/noise ratio
100 μV: 75 dB 1000 Hz/75 Hz frequency swing.
Distortion
0·45% at 100 μV 1000 Hz/40 kHz frequency swing.
AM suppression
52 dB at 100 μV.
Capture ratio
2 dB.
IF bandwidth
200 kHz at 3 dB.
Detector bandwidth
1 MHz.
Stereo crosstalk
38 dB at 1000 Hz.
Pilot and carrier suppression
50 dB.
Frequency response
20 Hz–15 kHz, stereo/mono ±2 dB.
Channel difference
Output ±2 dB.
Special
AFC (automatic frequency control). Automatic stereo/mono switching. Switching level adjustable between 1 μV and 100 μV. Muting (removes inter-station hiss). Switching level adjustable for signal strengths between 0·5 μV and 40 μV. The data listed here are minimum values. Beomaster 5000 meets the minimum specifications for the DIN 45 500 standards. Each amplifier and tuner carries its own accredited certificate of performance.

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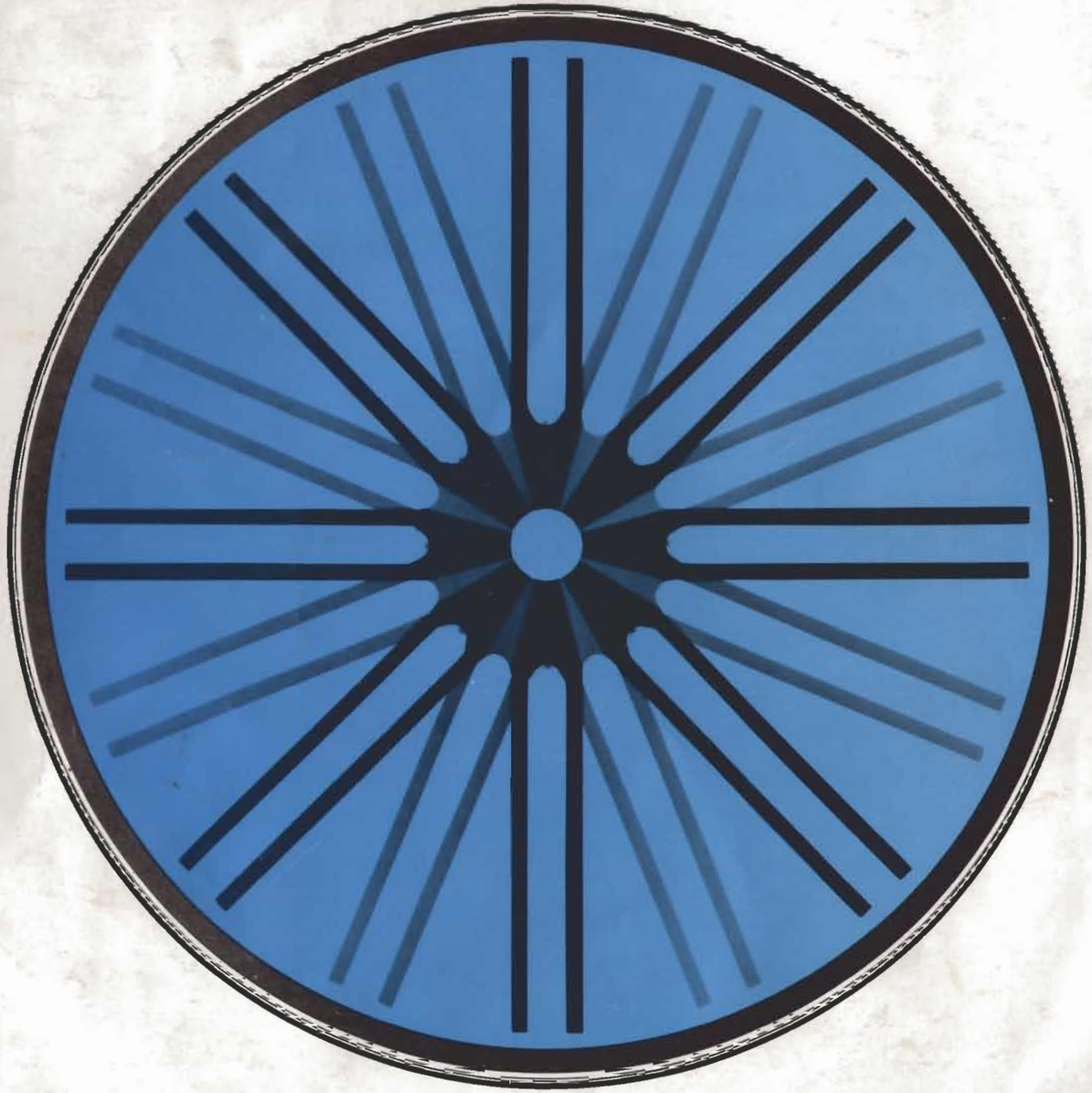
Trade Descriptions Act 1968
Descriptions of equipment shown in this leaflet are correct at the time of going to press, but are subject to alteration. Details of any alterations are available on request.

Bang & Olufsen reserve the right to change designs and technical specifications without notice.

Part number 125/38

Design Philip Johnson LSIA Photography Hedges/Wright Limited Print Adams Bros & Shardlow Limited

Bang & Olufsen
Beomaster 5000/Beolab 5000



Today more than ever before there is a need for proper relaxation – for some few hours of leisure and contentment after a busy day. If music has a place in your life, you need audio equipment that will give you years of pleasure and good service, that will do justice to your musical taste and bring a touch of luxury to your home.
A good quality radio tuner can bring the world into your living room, and the true sound of the broadcast can be re-created by an equally sophisticated amplifier. Stereo transmissions, if these are available in your area, require specialised equipment if they are to be received and amplified correctly and without undesirable background noise.
You may also need the added facility for connecting a record deck or tape recorder so you can build up your own personal library of great musical performances. The better the equipment you choose, the more satisfying your leisure time will be.
Bang & Olufsen have had over forty years' experience in designing and building radio and audio products. Their standards of excellence are famous throughout Europe, and their name is synonymous with quality. If you prefer listening to the great outdoors rather than living in it, Bang & Olufsen brings you the sweetest sounds.

Beomaster 5000

The Beomaster 5000 is a sophisticated FM stereo tuner possessing a high degree of sensitivity and selectivity. The use of ceramic filters in the circuitry gives optimum separation of the stations on adjacent channels and provides a barrier against unwanted interference, and the presence of FETs (field effect transistors) in the front end improves reception of weak stations which normally tend to be "crowded out" by stronger stations along the FM band.
The tuner is equipped with a stereo decoder operated by a computer type circuit which automatically switches from mono to stereo when a stereo signal of sufficient strength is picked up and the signal to noise ratio is acceptable. If the field strength becomes too low during a transmission, the unit will automatically cut back to mono reception. Tuning is by means of a slide rule control along a clearly calibrated scale and the cursor is fitted with a thumb wheel to assist accurate fine tuning. A large tuning meter is provided as a visible means of checking tuning accuracy and signal strength.
An automatic frequency control circuit locks on to the required station and prevents drifting, and the muting switch can be engaged to quieten inter-station noise when tuning along the scale.
The excellent specification of the Beomaster 5000 makes it ideal for use with any top-quality audio system, but it is primarily designed for use in conjunction with the Beolab 5000 amplifier, to which it is the perfect complement.
The two units are identical in size and shape, and both have brushed aluminium facias and elegant wooden cabinets finished in teak or rosewood.

Beolab 5000

The Beolab 5000 is one of the most outstanding audio units to be marketed in this country in recent years. It is a silicon transistor stereo amplifier that really lives up to the name of high fidelity. The twin-channel amplifier produces 2 x 60 watts RMS output with less than 0·6% distortion at all frequencies, and its comprehensive input and output facilities make the Beolab 5000 the perfect control for a really superior audio system.
Despite its sophisticated technical design, the Beolab 5000 is extremely simple to use, all the variable controls being of the cursor type with clear, logical calibrations, and all the switches being push-buttons, graphically marked by a special process that makes the markings resistant to fading or flaking. There are input connections for microphone, record deck, tuner and tape recorder and an auxiliary input for any additional equipment. The sockets for gramophone, tape and tuner are all duplicated in DIN and phono types for conveniently connecting other suitable makes of equipment. Outputs are provided for tape and line and two pairs of loudspeakers.

A special accessory – the 6006 spread box – is available to allow variations in the "width" of stereo effect by means of one or two centre channel speakers, and to provide an output for stereo headphones. Separate scratch and rumble filters may be switched in to compensate for poor or varying quality on records or tapes, and a loudness control ensures really good high and low frequency reproduction even at the quietest volume levels.
A special test button allows the input levels from different sound sources in the system to be exactly matched.
The use of silicon transistors in the circuitry ensures a low inherent noise level, a high degree of stability in differing ambient temperatures, and a wide tonal range.
The cabinet is finished in natural wood in a choice of teak or rosewood, and when used with the Beomaster 5000, the amplifier may conveniently be placed on top of the tuner if space is limited. The Beolab 5000 is fitted with a special mains socket to supply power to the tuner, so the connecting cables may be arranged neatly out of sight.

Beolab 5000

Dimensions
3·9" high, 18·5" wide, 9·7" deep.
Weight
22·9 lb.
Power requirements
110–130–220–240V AC, 50/60 Hz, 45-325 watts. Fitted with switched mains outlet socket for tuner.
Power Output
120 watts (2 x 60 watts) RMS.
Speaker impedance
4Ω.

Distortion
Less than 0·2% at 1000 Hz (2 x 60 watts output).
Less than 0·6% at all frequencies from 20 to 20000 Hz and to power outputs in excess of 60 watts on both channels simultaneously.
Signal to noise ratio
90 dB below 60 watts with volume control at minimum.
Frequency response
20–20000 Hz ±1·5 dB.

Input	Application	Curve	Input impedance 1000 Hz	Nominal(1) input voltage	Alignment control ranges	Maximum input voltage	Socket
MIC	Balanced input for microphone	Linear	200Ω maximum	200µV	150µV 19 mV(2)	3·5 mV 15 mV	DIN
PHONO HIGH	Crystal pickup and line	Linear	1 MΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
PHONO LOW	Magnetic pickup	IEC fine groove	47 kΩ	4 mV	1·3 mV 14 mV	3·5 mV 120 mV	DIN and PHONO
TUNER HIGH	Radio/line	Linear	470 kΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
TUNER LOW	Radio	Linear	47 kΩ	7 mV	6 mV 200 mV	180 mV 9V	DIN and PHONO
AUX	Line	Linear	470 kΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
TAPE	Tape recorder	Linear	470 kΩ	250 mV	200 mV 7V(2)	7V 7V	DIN and PHONO

(1) Nominal input voltage is the voltage providing full power output with the volume control at maximum. Technical data is for alignment set for nominal input voltages.

(2) May be set for higher voltages, but maximum input voltage must not exceed the values listed.

Outputs	Output impedance	Output voltage at nominal input voltage	Maximum output voltage	Socket
TAPE	4 kΩ	30 mV	0·9V	DIN
LINE OUT	4 kΩ	30 mV	0·9V	DIN
LINE OUT	2 kΩ	350 mV	7V	PHONO

Speakers at outputs	Speaker impedance(1)	Power output
SPKRS 1–2	4Ω	2 x 60 watts
SPKRS 1–2	8Ω	2 x 40 watts
SPKRS 1–2	16Ω	2 x 20 watts
CENTRE only	8Ω	120 watts

(1) Minimum speaker impedance to be presented to each channel = 3·2Ω.
Using centre channel only, speaker impedance to be greater than 6·4Ω.

FREQUENCY
87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 Mc
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 NO
MONO
MUTING
AFC
POWER
BEOMASTER 5000
-5 -4 -3 -2 -1 0 1 2 3 4 5+
-5 -4 -3 -2 -1 0 1 2 3 4 5+
5 4 3 2 1 0 1 2 3 4 5
0 1 2 3 4 5 6 7 8 9 10
BEOLAB 5000